OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG208860

PPA2 (NM_006903) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPA2 (NM_006903) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPA2
Synonyms:	HSPC124; SCFAI; SCFI; SID6-306
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG208860 representing NM_006903
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGCGCTGCTGCGGCTGCTGCGCACGGGTGCCCCAGCCGCTGCGTGCCTGCGGTTGGGGACCAGTG
CAGGGACCGGGTCGCGCCGTGCTATGGCCCTGTACCACACTGAGGAGCGCGGCCAGCCCTGCTCGCAGAA
TTACCGCCTCTTCTTTAAGAATGTAACTGGTCACTACATTTCCCCCTTTCATGATATTCCTCTGAAGGTG
AACTCTAAAGAGGAAAATGGCATTCCTATGAAGAAAGCACGAAATGATGAATATGAGAATCTGTTTAATA
TGATTGTAGAAATACCTCGGTGGACAAATGCTAAAATGGAGATTGCCACCAAGGAGCCAATGAATCCCAT
TAAACAATATGTAAAGGATGGAAAGCTACGCTATGTGGCGAATATCTTCCCTTACAAGGGTTATATATGG
AATTATGGTACCCTCCCTCAGATTCTTTCTTGTGGAGAAGTTATTCATGTGAAGATCCTTGGAATTTTGG
CTCTTATTGATGAAGGTGAAACAGATTGGAAATTAATTGCTATCAATGCGAATGATCCTGAAGCCTCAAA
GTTTCATGATATTGATGATGTTAAGAAGTTCAAACCGGGTTACCTGGAAGCTACTCTTAATTGGTTTAGA
TTATATAAGGTACCAGATGGAAAACCAGAAAACCAGTTTGCTTTTAATGGAGAATTCAAAAACAAGGCTT
TTGCTCTTGAAGTTATTAAATCCACTCATCAATGTTGGAAAGCATTGCTTATGAAGAAGTGTAATGGAGG
AGCTATAAATTGCACAAACGTGCAGATATCTGATAGCCCTTTCCGTTGCACTCAAGAGGAAGCAAGATCA
TTAGTTGAATCGGTATCATCTTCACCAAATAAAGAAAGTAATGAAGAAGAGCAAGTGTGGCACTTCCTTG
GCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

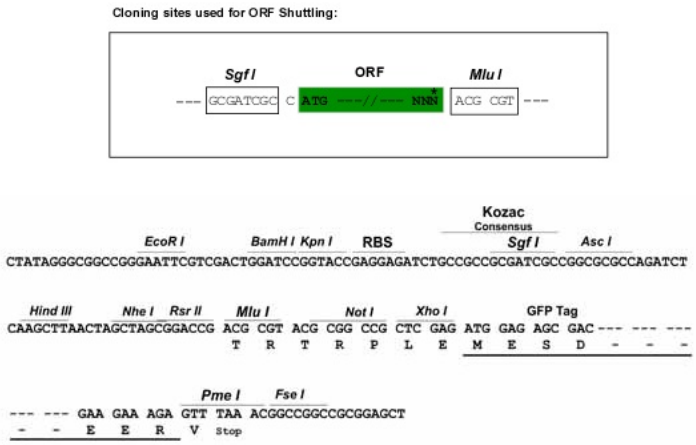
>RG208860 representing NM_006903
Red=Cloning site Green=Tags(s)

MSALLRLLRTGAPAAACLRLGTSAGTGSRRAMALYHTEERGQPCSQNYRLFFKNVTGHYISPFHDIPLKV
NSKEENGIPMKKARNDEYENLFNMIVEIPRWTNAKMEIATKEPMNPIKQYVKDGKLRYVANIFPYKGYIW
NYGTLPQILSCGEVIHVKILGILALIDEGETDWKLIAINANDPEASKFHDIDDVKKFKPGYLEATLNWFR
LYKVPDGKPENQFAFNGEFKNKAFALEVIKSTHQCWKALLMKKCNGGAINCTNVQISDSPFRCTQEEARS
LVESVSSSPNKESNEEEQVWHFLGK

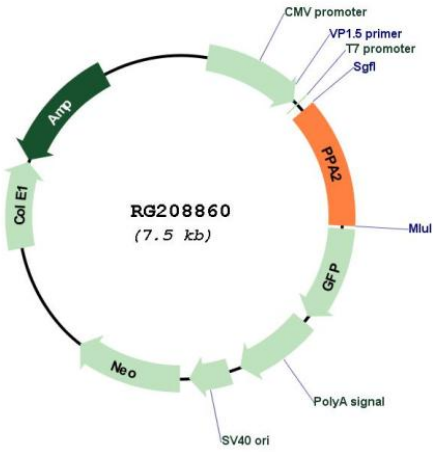
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006903

ORF Size: 915 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_006903.4, NP_008834.3
RefSeq Size:	1595 bp
RefSeq ORF:	918 bp
Locus ID:	27068
UniProt ID:	Q9H2U2
Cytogenetics:	4q24
Domains:	Pyrophosphatase
Protein Pathways:	Oxidative phosphorylation
Gene Summary:	The protein encoded by this gene is localized to the mitochondrion, is highly similar to members of the inorganic pyrophosphatase (PPase) family, and contains the signature sequence essential for the catalytic activity of PPase. PPases catalyze the hydrolysis of pyrophosphate to inorganic phosphate, which is important for the phosphate metabolism of cells. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]